Presentation
15th Annual NDIA SO/LIC Symposium and Briefing

Asymmetry: Boon, Bane or Business as Usual?

- Asymmetry: Challenge and Advantage
- Technology Asymmetry: Basis for Hope
- TSWG Technology Examples
- Technology “Inflection Points”
- Conclusions

Asymmetry

- Threat?
- Advantage?
- Both?

Sun Tzu, 500 BCE

If the enemy is superior in strength, evade him.

If his forces are united, separate them.

Attack him where he is unprepared.

Appear where you are not expected.

Asymmetry Forms

- Operational
- Technological
- Will
- Organization
- Time
- Values

Mission and Objectives

- **Mission:** Conduct the U.S. national interagency research and development program for Combating Terrorism through rapid research, development, and prototyping.
- **Objectives:**
  - Provide interagency forum to coordinate R&D requirements for combating terrorism
  - Sponsor R&D not addressed by individual agencies
  - Promote information transfer

Oversight
DOS

Executive
Program Direction
ASD (SO/LIC)

Technical Chairs
DoD DHS DOE FBI

COORDINATOR FOR COUNTERTERRORISM

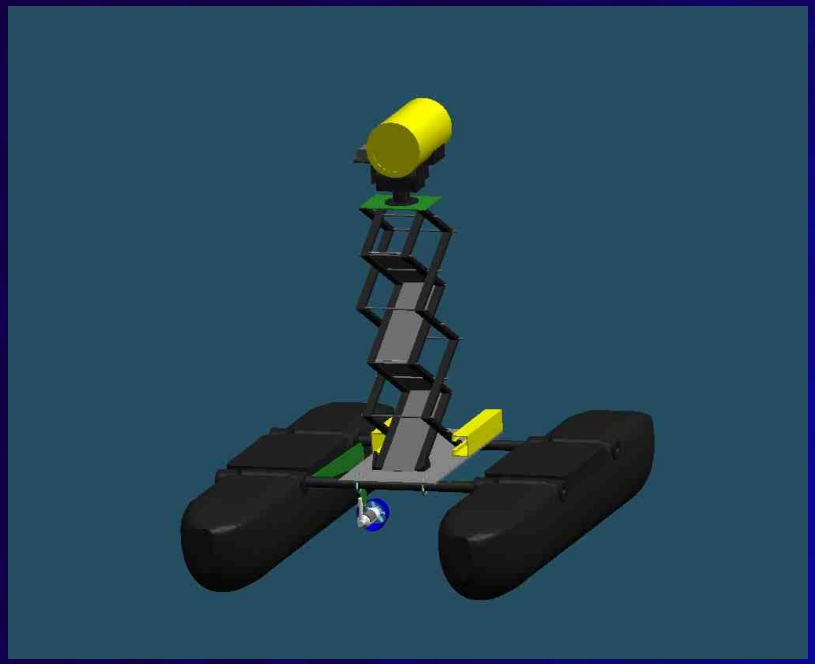
PROGRAM MANAGEMENT

Combating Terrorism
Technology Support Office
DoD

MULTI-AGENCY MEMBER SUBGROUPS

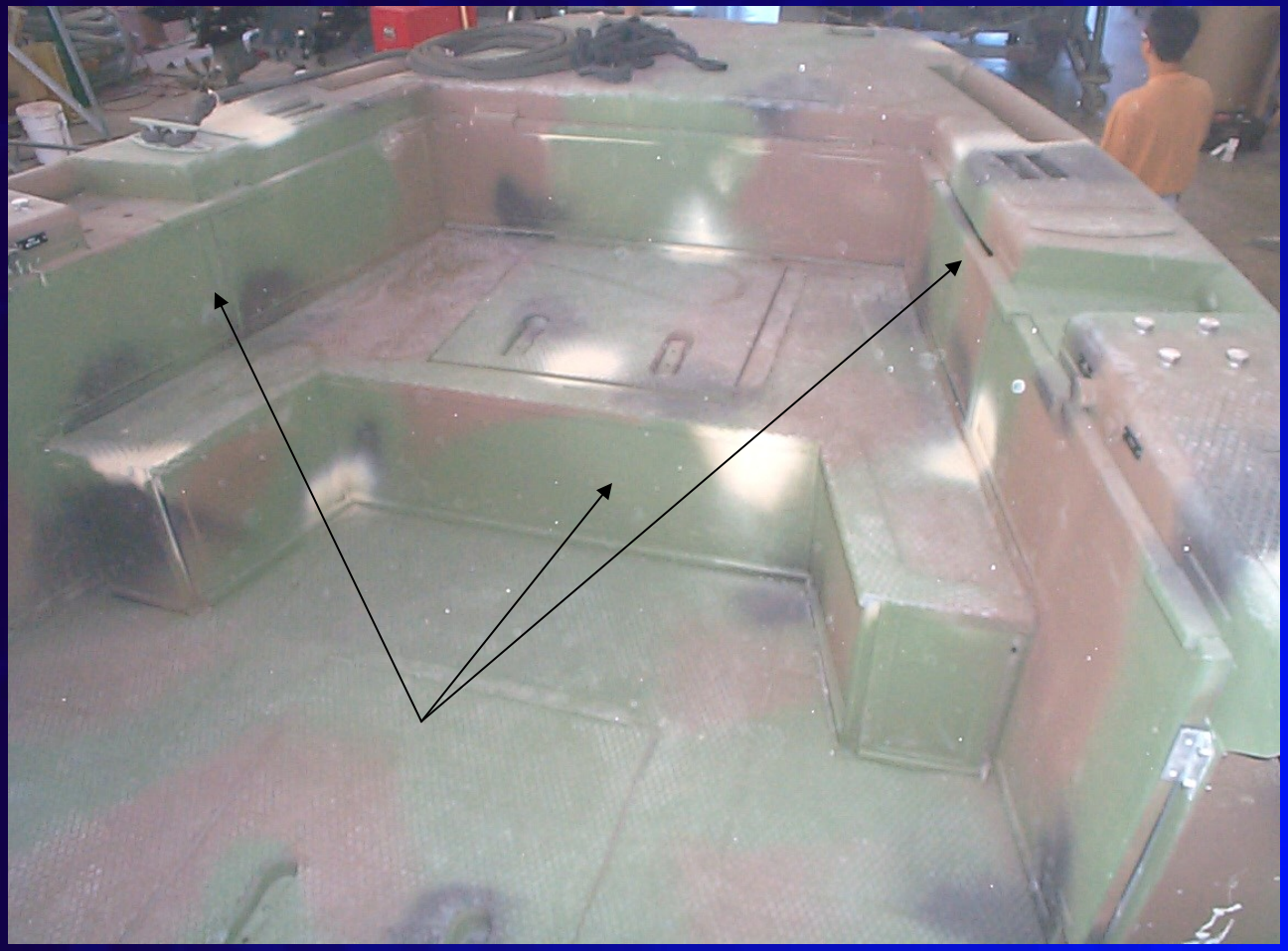
Chemical, Biological Radiological, Nuclear Countermeasures **FBI/IC**	**Improvised Device Defeat** **FBI**	**Investigative Support & Forensics** **USSS/USPS**	**Surveillance, Collection & Operations Support** **IC**	**Training Technology Development** **TBD**	
Explosives Detection **TSA**	**Infrastructure Protection** **DoD/FBI**	**Physical Security** **DoD**	**Tactical Operations Support** **DoD**	**VIP Protection** **USSS**	

UROC Platform



SOC-R Craft

SOC-R Armor



Mass Personnel Decon Protocols

Best Practices and Guidelines for Mass Personnel Decontamination

Victim Safety.
Consider victim safety when developing decontamination plans, and take all reasonable precautions to minimize risks to victims undergoing decontamination.

Victim Privacy.
Clothing removal is one of the quickest and most effective ways to remove contamination from a victim. When possible, establish secure, private, and sheltered areas away from media to make victims more willing to disrobe. However, recognize that privacy and modesty may have to be sacrificed in certain situations.

Victim's Perception of Safety.
Because victim compliance can have a high impact on decontamination procedures, you must provide effective communication to ease anxiety and give victims a perception of safety.

Escape Masks

MSA

Quick Mask 2000

Provides at least 15 minutes Protection against Chemical and Biological agents

Disposable/one time use

One size fits all

Users

Available to DoD and other Federal agencies through GSA

Source

Quick Mask 2000 available through GSA

Low Cost Robots

- Robot for low cost DoD option
- Used by local Bomb Disposal Teams

SPIDER System

Critical Incident Response Seminars (CIRTS)

- Provide bomb disposal technicians with threat intelligence and developmental tools and techniques
- UK, Israel, Canada support

Emergent Technologies

- Nano Technology (10exp-9 meters)
- Biological Processes
- Small, fast, capable, cheaper dispersed Computing

Conclusions

- Our Asymmetric *Advantage*: Technology
- User *Requirement* Satisfaction: TSWG
- *Science* Reconnaissance
- Skills Integration Through Technology

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TSWG Membership

Department of Defense
Defense Computer Forensics Laboratory
Defense Cyber Crime Institute
Defense Intelligence Agency
Defense Logistics Agency
Defense Polygraph Institute
Defense Threat Reduction Agency
Joint Chiefs of Staff
National Reconnaissance Office
National Security Agency
Office of the Assistant Secretary of Defense, Special Operations and Low-Intensity Conflict
Office of the Under Secretary of Defense, Acquisition, Technology and Logistics
Pentagon Force Protection Agency
U.S. Central Command
U.S. European Command
U.S. Joint Forces Command
U.S. Special Operations Command
U.S. Air Force
- Air Combat Command
- Air Force Research Lab
- Electronic Systems Command
- Force Protection Battle Lab
- Force Protection Systems Program Office
- Office of Special Investigations
- Surgeon General

U.S. Army
- 52nd Ordnance Group
- Chemical School
- Corps of Engineers
- Criminal Investigations Command
- Forces Command
- Maneuver Support Center
- Medical Research Institute for Infectious Diseases
- Natick Research, Development and Engineering Center
- National Ground Intelligence Center
- Soldier and Biological Chemical Command, Edgewood
  - Chemical Biological Center
- Tank Automotive and Armaments Command

Department of Defense (cont)
U.S. Marine Corps
- Chemical Biological Incident Response Force
- Critical Infrastructure Protection

U.S. Navy
- Joint Program Office-Special Technology Countermeasures
- Naval Air Warfare Center
- Naval Criminal Investigative Service
- Naval Explosives Ordnance Disposal Tech Div
- Naval Facilities Engineering Service Center
- Special Warfare Center

Department of Agriculture
Animal and Plant Health Inspection Service
Cooperative States Research, Education and Extension
- Service

Food Safety and Inspection Service
Forest Service

Department of Commerce
National Institute of Standards and Technology
- Office of Law Enforcement Standards

Department of Energy
National Nuclear Security Administration
Office of Energy Assurance
Office of Security

Department of Health & Human Services
Food and Drug Administration

Department of Homeland Security
Border and Transportation Security Directorate
Federal Emergency Management Agency
Federal Law Enforcement Training Center
Federal Protective Service
National Infrastructure Protection Center
Office of Domestic Preparedness
Science and Technology
Transportation Security Administration
Land and Maritime Security
U.S. Coast Guard
U.S. Secret Service
- Criminal Investigations Division

Department of Homeland Security (cont)
- Forensic Services Division
- Protective Security Division
- Special Services Division
- Technical Security Division

Department of Justice
Bureau of Alcohol, Tobacco, Firearms & Explosives
Drug Enforcement Administration
Federal Bureau of Investigation
- Bomb Data Center
- Hazardous Materials Response Unit
- Hostage Rescue Team
- Weapons of Mass Destruction Operations

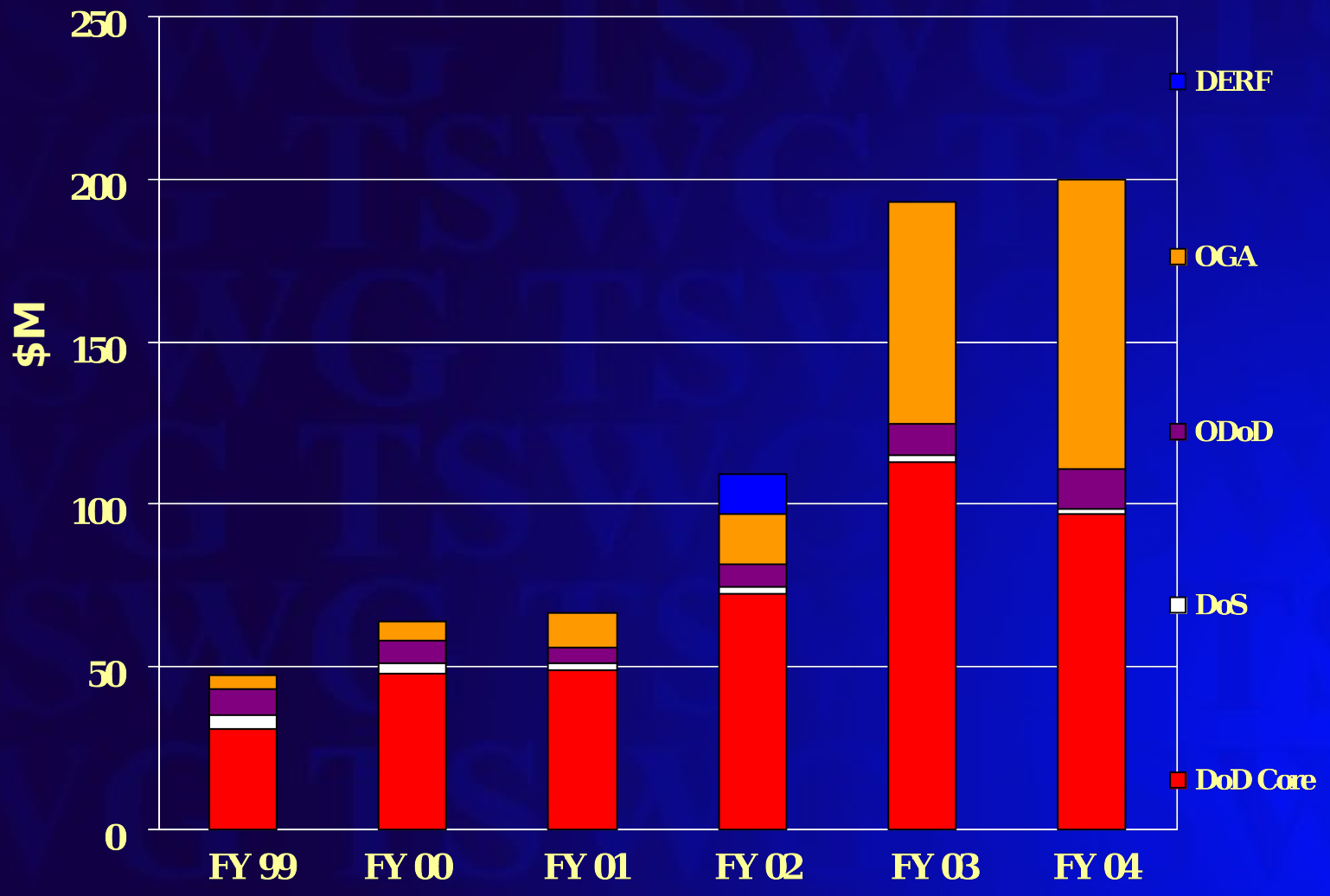
Federal Bureau of Prisons
National Center for Forensic Science
National Forensic Science Technology Center
National Institute of Justice
U.S. Marshals Service

Department of State
Bureau of Diplomatic Security
Office of the Coordinator for Counterterrorism
Overseas Building Operations

Department of Transportation
Federal Aviation Administration
Intelligence and Security
Office of Information Services
Volpe National Transportation Systems Center

Independent Agencies
Environmental Protection Agency
Federal Reserve Board
General Services Administration
Intelligence Community
InterAgency Board
National Aeronautics and Space Administration
Nuclear Regulatory Commission
Office of Science and Technology Policy
Senate Sergeant at Arms
Supreme Court of the United States
U.S. Capitol Police
U.S. Postal Inspection Service

TSWG Program Funding

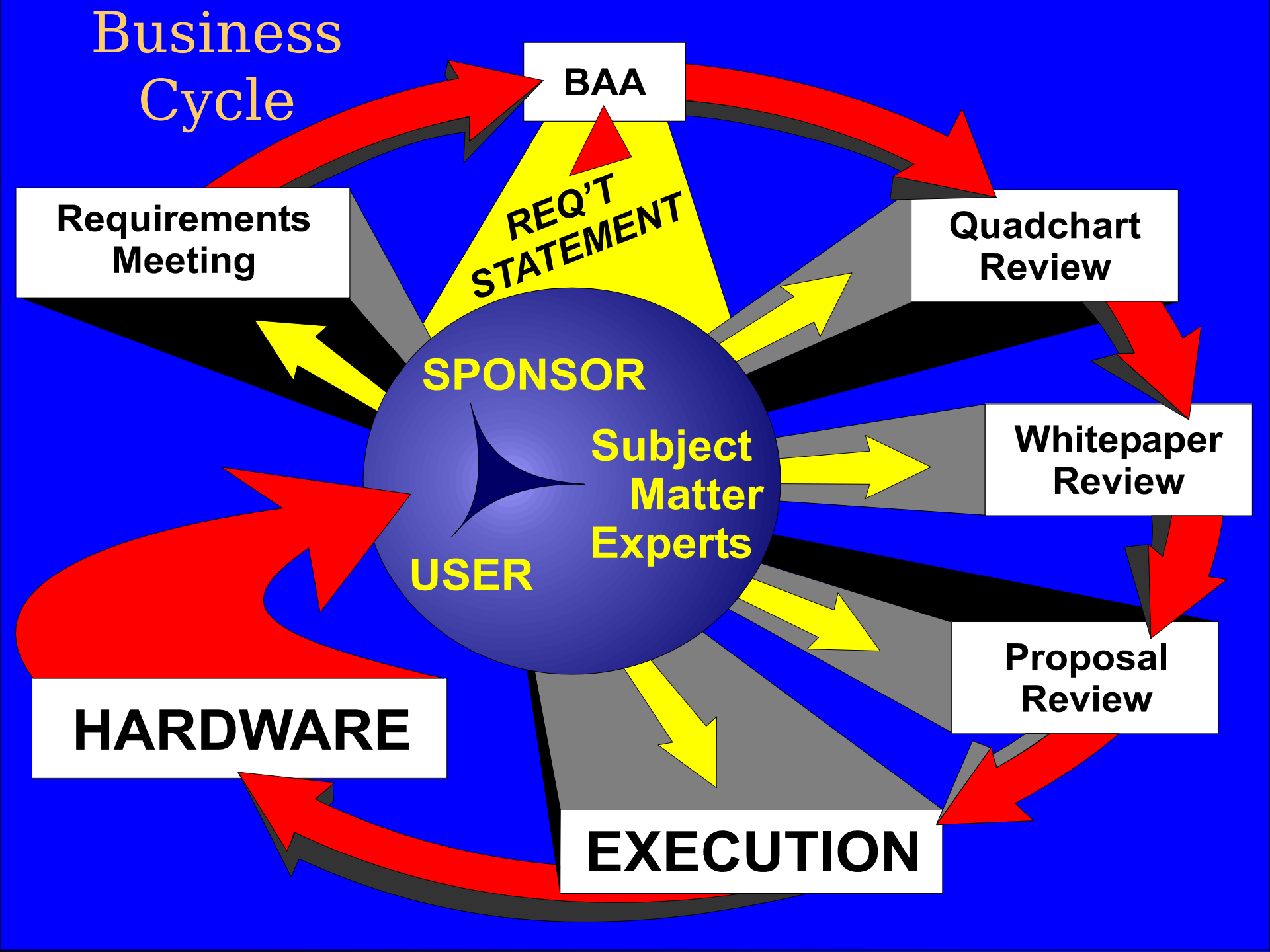


Other DoD

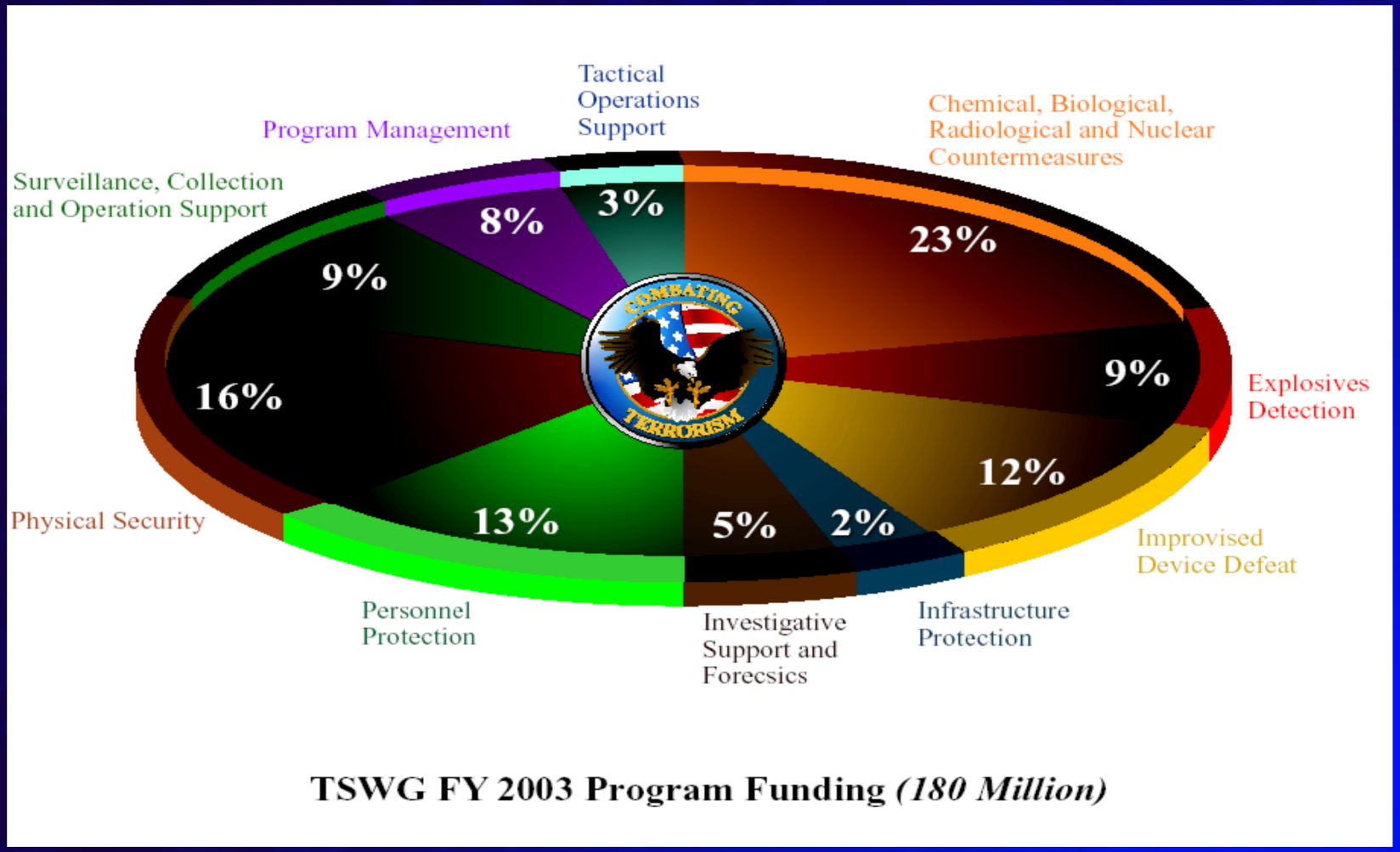
AFTAC
DTRA
JPO Bio Defense
JPO Robotics
Nat'l Guard
NAVFAC
NEOD-TD
NSA
NSWC Dahlgren
ONR
SOCOM
SBCCOM
TF Falcon
USMC-HQ
WHS

Other Gov. Agencies

ATF
DHHS
DHS
DOE
DOJ
EPA
FAA
FBI
FDA
IC
NIJ
USDA
USCG
USPS
USSS


Business Cycle
BAA
REQ'T STATEMENT
Requirements Meeting
Quadchart Review
SPONSOR
Subject Matter Experts
USER
Whitepaper Review
Proposal Review
HARDWARE
EXECUTION

FY03 Subgroup Funding



TSWG FY 2003 Program Funding *(180 Million)*